Inte Application No

PCT/IB2004/052281 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F13/16 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) G06F IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category ° , PATENT ABSTRACTS OF JAPAN 1.12Α vol. 006, no. 092 (P-119), 29 May 1982 (1982-05-29) & JP 57 027330 A (HITACHI LTD), 13 February 1982 (1982-02-13) abstract US 6 366 984 B1 (CARMEAN DOUGLAS M ET AL) 1-8,122 April 2002 (2002-04-02) the whole document US 6 122 715 A (PALANCA ET AL) 1-8,12Α 19 September 2000 (2000-09-19) the whole document US 5 561 780 A (GLEW ET AL) 1-8,12 Α 1 October 1996 (1996-10-01) the whole document -/--Further documents are listed in the continuation of box C. Χ Patent family members are listed in annex. Special categories of cited documents : T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 27/05/2005 15 March 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

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	tion) DOCUMENTS CONSIDERED TO BE RELEVANT		Delovent to doin 11		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
Α	US 4 841 435 A (PAPENBERG ET AL) 20 June 1989 (1989-06-20) abstract column 1, line 8 - column 3, line 33		1-8,12		
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-8,12
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

# FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8, 12

Arranging data bits from a plurality of data words of less than the maximum number of bits of a bus cycle and placing these in combination on the data bus.

2. claims: 9-11, 13

Selecting a distribution of data words such that the logic level changes on the data lines is minimized.

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
JP 57027330	, A	13-02-1982	NONE			
US 6366984	B1	02-04-2002	NONE			
US 6122715	Α	19-09-2000	NONE			
US 5561780	Α	01-10-1996	NONE			
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